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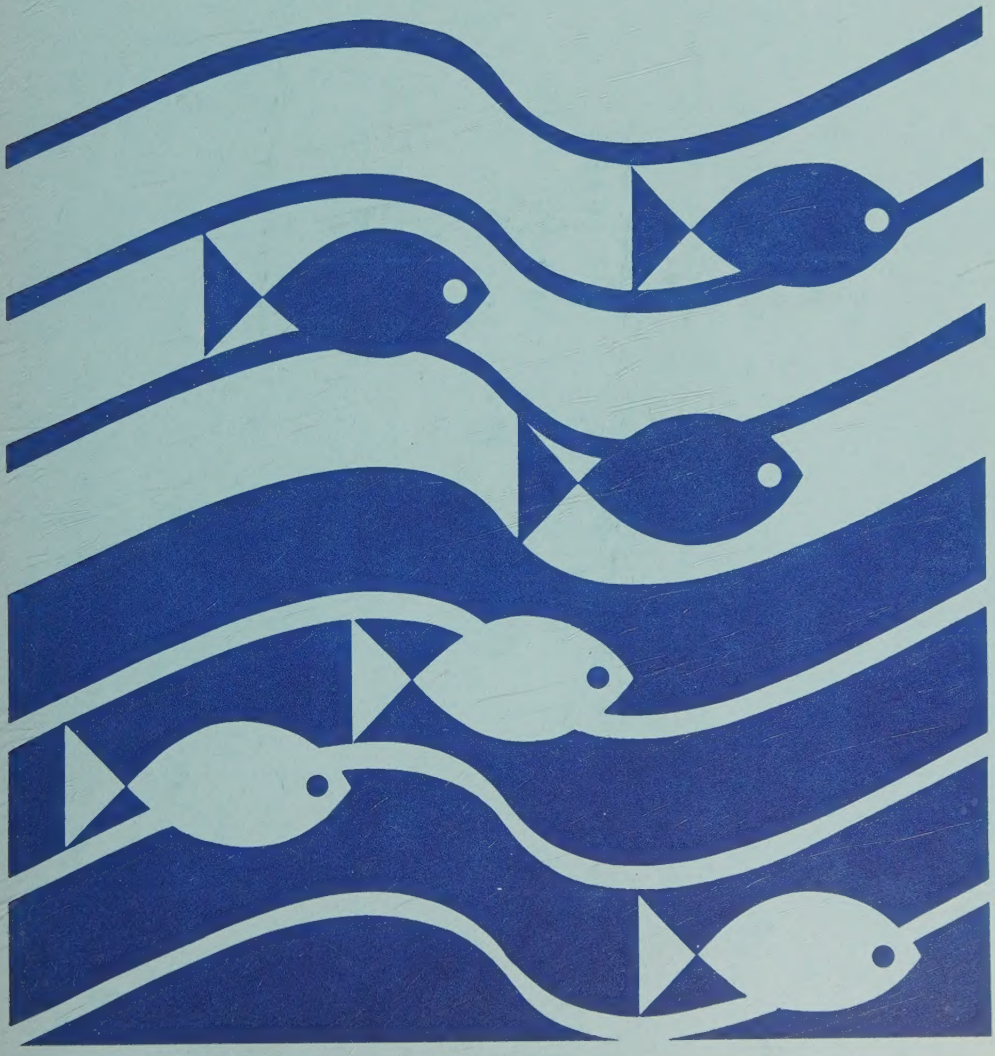

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Fisheries Review is intended to furnish fishery biologists with abstracts of current literature in sport, fishery research, and management.

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89-002264 Hutchins, J. B. NEW AUSTRALIAN FISHES. PART 12. A NEW SPECIES OF *EUBALICHTHYS* (MONACANTHIDAE). *Mem. Mus. Vic.* 48(1):51-52. 1987. FR 34(2)
[Dep. Ichthyol., West. Australian Mus., Francis St., Perth, W.A. 6000, Australia] *Eubalichthys cyanoura.*

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[Smithsonian Oceanogr. Sorting Cent., Natl. Mus. Nat. Hist., Smithsonian Inst., Washington, DC 20560] *Platycephalus aurimaculatus* and *Rogadius patriciae.*

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[CSIRO Div. Fish. Res., GPO Box 1538, Hobart, Tasm. 7001, Australia] *T. ovalis, T. personata, U. flavomosaicus, U. orarius,* and *U. westraliensis.*

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[Zool. Dep., N.D. State Univ., Fargo 58105] *Pimephales promelas* and *Culaea inconstans.*

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[Div. Nat. Sci., Northern Territory Mus. Arts & Sci., P.O. Box 4646, Darwin, N.T. 5794, Australia] *A. westralis.*

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[Div. Nat. Sci., North. Territory Mus., P.O. Box 4646, Darwin, N.T. 5794, Australia] *Notolabrus, Dotalabrus, Eupetrichthys, Pictilabrus,* and *Austrolabrus.*

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Hypophthalmichthys molotrix.

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[U.S. Fish & Wildl. Serv., 2800 Cottage Way, Rm. E-1823, Sacramento, CA 95825] *Cyrinodon nevadensis mionectes.*

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[Dep. Biol., Fac. Sci., Chulalong Korn Univ., Bangkok 10500, Thailand] *Herklotsichthys collettei, Stolephorus advenus, Thryssa marasriae* and *Setipinna paxtoni.*

PARASITES AND DISEASES-GENERAL

89-002299 Armstrong, R. D.; T. P. T. Evelyn; S. W. Martin; W. Dorward and H. W. Ferguson. ERYTHROMYCIN LEVELS WITHIN EGGS AND ALEVINS DERIVED FROM SPAWNING BROODSTOCK CHINOOK SALMON *ONCORHYNCHUS TSHAWYTSCHA* INJECTED WITH THE DRUG. *Dis. Aquat. Org.* 6(1):33-36. 1989. FR 34(2)
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[Cent. Vet. Lab., 40 Kampong Java Rd., Singapore 0922]

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[Dep. Mar. Sci., Univ. S. Fla., 140 7th Ave. S.E., St. Petersburg 33701] Data for 18 species.

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89-002306 Lyles, A. M. PATTERNS OF PARASITE INFECTION IN THE GUPPY. *Am. Zool.* 28(4):51A. 1988. Abstract only. FR 34(2)
[Princeton Univ., Princeton, NJ] *Poecilia reticulata* in Trinidad and Tobago.

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[Forschung. Wirbeltierforschung, Akad. Wissenschaften, Berlin 1136, East Germany] *Carassius auratus auratus* and *Cyprinus carpio* in East Germany.

89-002309 Reda, E. S. A. AN ANALYSIS OF PARASITE FAUNA OF BREAM, *ABRAMIS BRAMA* (L.) IN VISTULA NEAR WARSZAWA IN RELATION TO THE CHARACTER OF FISH HABITAT. I. REVIEW OF PARASITE SPECIES. *Acta Parasitol. Pol.* 32(4):309-326. 1987. In English with Polish summ. From Protozool. Abstr. 12(11):3161. 1988. FR 34(2)
[W. Stefanski Inst. Parasitol., Polish Acad. Sci., Pasteura 3, S.p. 153, 00-973 Warsaw, Poland]

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[Inst. Natl. Recherche Agron., Lab. Ichthyopathol., Stn. Virol. & Immunol. Mol., Cent. Recherches Jouy-en-Josas, Domaine de Vilvert, F-78350 Jouy-en-Josas, France] Data for seven species.

89-002311 Carson, J. and J. Handlinger. VIRULENCE OF THE AETIOLOGICAL AGENT OF GOLDFISH ULCER DISEASE IN ATLANTIC SALMON, *SALMO SALAR* L. *J. Fish Dis.* 11(6):471-479. 1988. FR 34(2)
[Mt. Pleasant Lab., Dep. Agric., P.O. Box 46, Launceston South, Tasm. 7249, Australia] *Carassius auratus.*

89-002312 Cossarini-Dunier, M.; A. Demael; D. Lepot and V. Guerin. EFFECT OF MANGANESE IONS ON THE IMMUNE RESPONSE OF CARP (*CYPRINUS CARPIO*) AGAINST *YERSINIA RUCKERI. Dev. Comp. Immunol.* 12(3):573-579. 1988. From Vet. Bull. 58(12):7527. 1988. FR 34(2)
[Lab. Ecotoxicol. INRA-ENV LYON, B.P. 31, 69752 Charbonnieres, France]

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[Dep. Pathol. & Microbiol., Atlantic Vet. Coll., Univ. Prince Edward Island, Charlottetown, PI, Canada C1A 4P3]

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[Dep. Fish Dis., Nippon Vet. & Zootech. Coll., Kyonan Cho, Musashino, Tokyo 180, Japan]

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[Gunma Prefectural Fish. Exp. Stn., Shikishima, Maebashi 371, Japan] *Anguilla japonica.*

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[Fish Dis. Lab., Fac. Agric., Kochi Univ., Nankoku, Kochi 783, Japan] *Plecoglossus altivelis.*

89-002318 Kent, Michael L.; J. M. Groff; J. K. Morrison; W. T. Yasutake and R. A. Holt. SPIRAL SWIMMING BEHAVIOR DUE TO CRANIAL AND VERTEBRAL LESIONS ASSOCIATED WITH *CYTOPHAGA PSYCHROPHILA* INFECTIONS IN SALMONID FISHES.

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89-002318 CONTINUED *Dis. Aquat. Org.* 6(1):11-16. 1989. FR 34(2)
[Dep. Fish. & Oceans, Pac. Biol. Stn., Nanaimo, BC, Canada V9R 5K6] *Oncorhynchus kisutch* and *O. mykiss*.

89-002319 Kusuda, Riichi and Takushi Tanaka. [OPSONIC EFFECT OF ANTIBODY AND COMPLEMENT ON PHAGOCYTOSIS OF *STREPTOCOCCUS* SP. BY MACROPHAGE-LIKE CELLS OF YELLOWTAIL.] *Bull. Jpn. Soc. Sci. Fish.* 54(12):2065-2069. 1988. In Japanese with English summ. FR 34(2)
[Fish Dis. Lab., Fac. Agric. Kochi Univ., Nankoku, Kochi 783, Japan] *Seriola quinqueradiata*.

89-002320 Kusuda, Riichi; Manabu Ninomiya; Masami Hamaguchi and Aiichiro Muraoka. [THE EFFICACY OF RIBOSOMAL VACCINE PREPARED FROM *PASTEURELLA PISCICIDA* AGAINST PSEUDOTUBERCULOSIS IN CULTURED YELLOWTAIL.] *Fish Pathol.* 23(3):191-196. 1988. In Japanese with English summ. FR 34(2)
[Fish Dis. Lab., Fac. Agric., Kochi Univ., Nankoku Kochi 783, Japan] *Seriola quinqueradiata*.

89-002321 Lawrence, W. B. and J. Brisker. OUTBREAK OF PISCINE TUBERCULOSIS (MYCOBACTEROSIS) IN AN AQUARIUM. *Army Med. Res. Inst. Infect. Dis.* 11p. 1987. From U.S. Government Reports 88(12):193. 1988. Available from NTIS as AD-A189 129/0/GAR. FR 34(2)

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[Coop. Fish & Wildl. Res. Unit, Dep. Fish & Wildl. Resour., Univ. Idaho, Moscow 83843] *Oncorhynchus tshawytscha*.

89-002323 Phipps, Barry Michael. PURIFICATION, BIOCHEMICAL CHARACTERIZATION AND MOLECULAR CLONING OF THE REGULAR SURFACE LAYER A PROTEIN OF *AEROMONAS SALMONICIDA. Ph.D. dissertation, Univ. Victoria (Canada)* 1988. From Diss. Abstr. Int. B Sci. Eng. 49(9):3588. 1989. FR 34(2)

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[Dep. Fish. & Allied Aquacult., Agric. Exp. Stn., Auburn Univ., Auburn, AL 36849]

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[Inst. Sci. Res., Maricult. & Fish. Dep., P.O. Box 24885, 13109 Safat, Kuwait]

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[Fac. Fish., Kagoshima Univ., Shimoarata Kagoshima 890, Japan]

89-002327 Salati, Fulvio; Keisuke Watanabe; Kenji Kawai and Riichi Kusuda. IMMUNE RESPONSE OF AYU AGAINST *VIBRIO ANGUILLARUM* LIPOPOLYSACCHARIDE. *Bull. Jpn. Soc. Sci. Fish.* 55(1):45-49. 1989. In English. FR 34(2)

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[Via Doni 5, 12080 Monastero di Vasco, (CN), Italy] *Plecoglossus altivelis.*

89-002328 Sharpe-Fajardo, E.; P. Thomas and D. Lewis. PHYSIOLOGICAL EFFECTS OF *VIBRIO ANGUILLARUM* EXTRACELLULAR TOXIN IN RED DRUM *SCIAENOPS OCELLATA*. *Am. Zool.* 28(4):21A. 1988. Abstract only. FR 34(2)
[Univ. Tex., Mar. Sci. Inst., Port Aransas]

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[Dep. Zool., Natl. Taiwan Univ., Taipei, Taiwan 10764, China] Data for 12 species.

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[Dep. Zool., Natl. Taiwan Univ., Taipei, Taiwan 10764, China] *Chanos chanos* and *Plecoglossus altivelis.*

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[Dep. Fish., Coll. Agric. & Vet. Med., Nihon Univ., Shimouma, Setagaya, Tokyo 154, Japan]

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[Dep. Med. Microbiol., Coll. Vet. Med., Univ. Ga., Athens 30602]

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[Natl. Vet. Inst., Box 7073, S-750 07 Uppsala, Sweden]

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[Natl. Vet. Inst., P.O. Box 7073, S-750 07 Uppsala, Sweden]

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[Natl. Vet. Inst., P.O. Box 7073, S-750 07 Uppsala, Sweden] *Oncorhynchus mykiss.*

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Zwerner, D. E.
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BOOK REVIEW

Joseph, J., W. Klawe, and P. Murphy. 1988. *Tuna and Billfish – Fish Without a Country*. Fourth edition. Inter-American Tropical Tuna Commission, P.O. Box 271, La Jolla, CA 92038. xi + 69 pp. Available from the printer at $15.75 (paper). Spanish-language version (*Atunes y Peces Espada – Los Peces sin Patria*, 1986, vii + 46 pp.) available for $9.95.

This attractive paperbound book (available in both English and Spanish version) aims to present a summary of the available information on several important worldwide fishery resources in one convenient place. The book's twelve section deal with the life history aspects of the mackerels, tunas, and billfishes as they pertain to their respective fisheries. The sections include a cursory survey of the taxonomic relationships among the groups, a summary of the fisheries, methods and status, and information on their age-and-growth, food, behavior, and migration. Diagnostic line drawings and distribution summaries are presented for 61 species.

This book represents a concise "information center" for the interested lay reader with regard to these fishes on a world-wide basis. Illustrations (prepared by George Matson) are artfully portrayed for 19 species. The diagrams depicting life history and species are simple and accurate. A criticism I have is that, since the title implies a preponderance of the presentation deals with the international aspect of these fishes, I was disappointed that the information specifically pertaining to this subject was not more comprehensive. The text has a few errors which is surprising given that this is the fourth edition of a book which first appeared in 1979.

The authors and the Inter-American Tropical Tuna Commission have done a good job at preparing and producing a text that will be useful and informative for a broad audience of interested individuals. Scientists will find it provides them with a concise summary of these fishes. The bibliographic section, although not intended to be exhaustive, provides enough materials to serve as a starting point.

I recommend this book to anyone interested in pelagic fisheries. It is informative, neat, artfully prepared, and the best part is that the price is very reasonable.--Stephen A. Bortone, Department of Biology, University of West Florida, Pensacola, FL 32514.

Africa
89-002192
89-002584
89-002605
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Africa, East: Lake Tanganyika
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Africa, Northwestern
89-002215
Africa, West
89-002163
Africa: Lake Victoria
89-002816
Africa: Nile River and Basin
89-002846
Africa: Zaire River and Basin
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Alabama, Northern
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Alabama: Guntersville Reservoir
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Alaska
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Alaska, Southeastern
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Alaska: Aleutian Islands
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Alaska: Chignik Lakes
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Alaska: Colville Delta
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Alaska: Colville River
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Alaska: Gulf of Alaska
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Alaska: Karluk River
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Alaska: Prudhoe Bay
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Alaska: Sagavanirktok River
89-002003
Alaska: Tanana River
89-001930
Alaska: Yukon River
89-001930
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89-002261
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89-002504
Arctic Ocean
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Argentina
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Argentina: Parana River
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Arizona
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Arizona: Verde River
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Arizona: Virgin River
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Arkansas
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Arkansas, Southeastern
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France: Allier River
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France: Mitis River
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France: Nivelle River
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France: Rhone River
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France: Touques River
89-002971
France: Verdon River
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Germany: Lech River
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Gulf of Mexico
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